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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/612,147	07/03/2003	Svend Erik Nielsen	H0610.0345/P345	3318	
24998	7590 03/22/2005		EXAM	EXAMINER	
DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP			LANGEL, V	LANGEL, WAYNE A	
2101 L Street, NW Washington, DC 20037			ART UNIT	PAPER NUMBER	
<b>.</b>			1754		
			DATE MAILED: 03/22/2005	DATE MAILED: 03/22/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/612,147	NIELSEN ET AL.				
		Examiner	Art Unit				
		Wayne Langel	1754				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)	Responsive to communication(s) filed on						
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ☐ Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) 1-4 is/are allowed.  6) ☐ Claim(s) 5-8 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08	Pape 5) 🔲 Notic	view Summary (PTO-413) er No(s)/Mail Date ce of Informal Patent Application (PT0 er:	O-152)			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/612,147

Art Unit: 1754

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5, 6 and 8 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Collier et al. Collier et al disclose a method of making a metal powder comprising activating particles of silicon nitride/silica or silicon nitride/alumina mixtures, and then mixing the activated particles with a solution of a reducible compound of ruthenium and reducing the ruthenium compound to the metal. See col. 6, lines 18-33.) The silica and/or alumina of Collier et al would inherently constitute a "secondary support" for the silicon nitride. In any event, it would be obvious to employ the alumina and/or silica as a support for the silicon nitride in the composition of Collier et al, since Collier et al teach that the silicon nitride should be in admixture with the alumina and/or silica, and it would be obvious to provide such admixture by providing the silica and/or alumina "on" the silicon nitride.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Collier et al. It would be obvious to include boron nitride as a refractory in the composition of Collier et al, since Collier et al teach at col. 1, lines 51-57 that the heat resistant material

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may be made from any synthetic refractory, and it is well-known that boron nitride is a synthetic refractory.

Claims 1-4 are allowed

Jacobsen is made of record for disclosing the synthesis of ammonia with a catalyst comprising ruthenium supported on silicon nitride and/or boron nitride.

Rei et al is made of record for disclosing a boron nitride supported noble metal catalyst.

Any inquiry concerning this communication should be directed to Wayne Langel at telephone number 571-272-1353.

Wayne Langel Primary Examiner Art Unit 1754